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A Certificate Authority is a trusted third party that helps verify the identity of websites and companies online. Using a CA makes sure that users are connecting to real, secure websites instead of fake ones. The main benefit of using a CA is that it builds trust and security for people using a site.

In this project, I created a **self-signed certificate**, which means I acted as my own CA. This works well for testing and development because it still uses encryption to secure connections, even though it’s not trusted by browsers the same way a real CA would be. In real-world use, companies pay verified CAs to provide certificates that make websites secure with HTTPS.



